

09/845,738
CSF Search in
massspec
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(FILE 'HOME' ENTERED AT 20:44:20 ON 27 JUL 2007)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 20:44:33 ON 27
JUL 2007

L1 206499 S (CEREBROSPINAL FLUID)
L2 2819 S L1 AND (MASS SPEC?)
L3 628 S L2 AND PEPTIDE?
L4 353 DUPLICATE REMOVE L3 (275 DUPLICATES REMOVED)
L5 187 S L4 AND BLOOD?
L6 135 S L5 AND URINE?
L7 0 S L6 AND SLAIVA?
L8 70 S L6 AND SALIVA?
L9 2 S L8 AND REVIEW?

=>

AN 2002:710567 CAPLUS

DN 137:349644

ED Entered STN: 19 Sep 2002

TI Peptide mapping of proteins in human body fluids using
electrospray ionization fourier transform ion cyclotron resonance
mass spectrometryAU Bergquist, Jonas; Palmblad, Magnus; Wetterhall, Magnus; Hakansson, Per;
Markides, Karin E.CS Department of Analytical Chemistry, Institute of Chemistry, Uppsala
University, Uppsala, SE-751 21, Swed.SO Mass Spectrometry Reviews (2002), 21(1), 2-15
CODEN: MSRVD3; ISSN: 0277-7037

PB John Wiley & Sons, Inc.

DT Journal; General Review

LA English

CC 13-0 (Mammalian Biochemistry)
Section cross-reference(s): 6, 9, 73

AB A review. Human body fluids have been rediscovered in the post-genomic era as great sources of biol. markers and perhaps particularly as sources of potential protein biomarkers of disease. Anal. tools that allow rapid screening, low sample consumption, and accurate protein identification are of great importance in studies of complex biol. samples and clin. diagnosis. Mass spectrometry is today one of the most important anal. tools with applications in a wide variety of fields. One of the fastest growing applications is in proteomics, or the study of protein expression in an organism. Mass spectrometry has been used to find post-translational modifications and to identify key functions of proteins in the human body. In this study, we review the use of human body fluids as sources for clin. markers and present new data that show the ability of Fourier transform ion cyclotron resonance (FTICR) mass spectrometry (MS) to identify and characterize proteins in four human body fluids: plasma, cerebrospinal fluid (CSF), saliva, and urine. The body fluids were tryptically digested without any prior separation, purification, or selection, and the digest was introduced into a 9.4 T FTICR mass spectrometer by direct-infusion electrospray ionization (ESI). Even though these samples represent complex biol. mixts., the described method provides information that is comparable with traditional 2D-PAGE data. The sample consumption is extremely low, a few microliters, and the anal. time is only a few minutes. It is, however, evident that the separation of proteins and/or peptides must be included in the methodol. in order to detect low-abundance proteins and other proteins of biol. relevance.

ST review peptide protein mapping body fluid mass
spectrometryIT Ion cyclotron resonance mass spectrometry
(Fourier transform, electrospray ionization; peptide mapping
of proteins in human body fluids using electrospray ionization fourier
transform ion cyclotron resonance mass spectrometry
)

IT Blood analysis

Blood plasma

Body fluid

Cerebrospinal fluid

Human

Saliva

Urine

Urine analysis

(peptide mapping of proteins in human body fluids using
electrospray ionization fourier transform ion cyclotron resonance
mass spectrometry)

IT Peptides, biological studies

ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

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Blood plasma
Body fluid
Cerebrospinal fluid
Human
Saliva
Urine
Urine analysis
(peptide mapping of proteins in human body fluids using
electrospray ionization fourier transform ion cyclotron resonance
mass spectrometry)

IT Peptides, biological studies

Proteins

RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)

(peptide mapping of proteins in human body fluids using electrospray ionization fourier transform ion cyclotron resonance mass spectrometry)

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L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2003:629357 CAPLUS
 DN 140:213159
 ED Entered STN: 15 Aug 2003
 TI Identification and characterization of peptides and proteins
 using Fourier transform ion cyclotron resonance mass
 spectrometry
 AU Palmblad, M.; Bergquist, J.
 CS Division of Ion Physics, Uppsala University, Uppsala, SE-751 21, Swed.
 SO Journal of Chromatography Library (2003), 68(Emerging Technologies in
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 CODEN: JCLIDR; ISSN: 0301-4770
 PB Elsevier Science B.V.
 DT Journal; General Review
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 CC 9-0 (Biochemical Methods)
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 (disease; identification and characterization of peptides and
 proteins using Fourier transform ion cyclotron resonance mass
 spectrometry)
 IT Body fluid
 (human; identification and characterization of peptides and
 proteins using Fourier transform ion cyclotron resonance mass
 spectrometry)
 IT Blood plasma
 Cerebrospinal fluid
 Diagnosis
 Human
 Post-translational processing

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 IT Body fluid
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 proteins using Fourier transform ion cyclotron resonance mass
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 IT Blood plasma
 Cerebrospinal fluid
 Diagnosis
 Human
 Post-translational processing

Saliva

Urine

(identification and characterization of peptides and proteins
using Fourier transform ion cyclotron resonance mass
spectrometry)

IT Peptides, analysis

Proteins

RL: ANT (Analyte); ANST (Analytical study)

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Saliva

Urine

(identification and characterization of peptides and proteins
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IT Peptides, analysis

Proteins

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FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 20:44:33 ON 27 JUL 2007

L1	206499 S (CEREBROSPINAL FLUID)
L2	2819 S L1 AND (MASS SPEC?)
L3	628 S L2 AND PEPTIDE?
L4	353 DUPLICATE REMOVE L3 (275 DUPLICATES REMOVED)
L5	187 S L4 AND BLOOD?
L6	135 S L5 AND URINE?
L7	0 S L6 AND SLAIVA?
L8	70 S L6 AND SALIVA?
L9	2 S L8 AND REVIEW?

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